

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331730-935

Luminaire Tested: **SA2XXRDIP-C865D1080U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331730-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 865 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6160.1 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

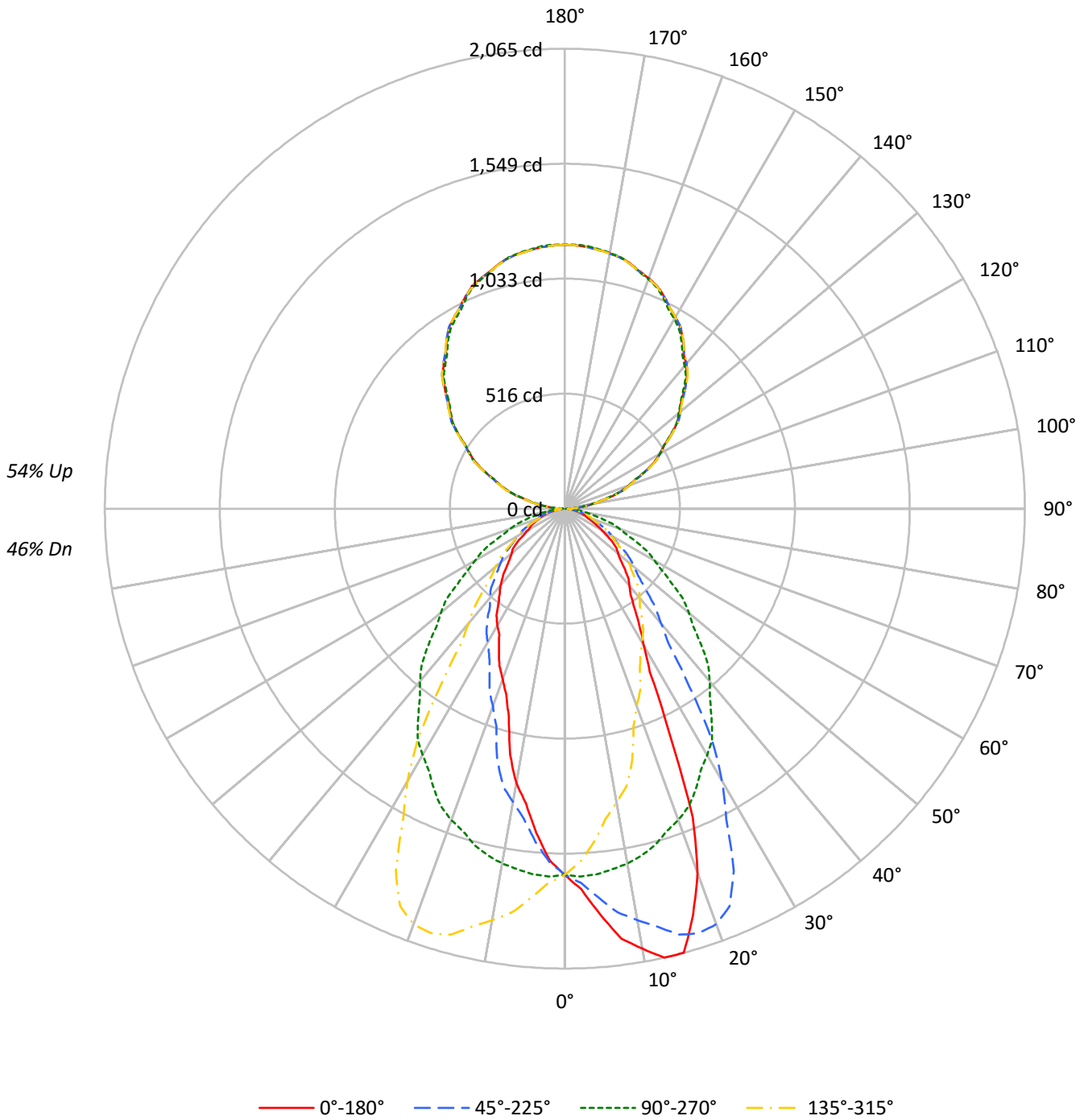
Input Watts (W): 65.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	94	90	87	90	86	83	80	72	70	68	59	58	57	48	47	46	40
2	89	83	77	72	82	76	71	67	64	61	58	53	51	48	43	41	40	35
3	82	73	66	61	75	68	62	57	57	53	49	48	45	42	39	37	35	31
4	76	65	58	52	69	61	54	49	51	47	43	43	39	37	35	33	31	27
5	70	59	51	45	64	54	48	43	46	41	37	39	35	32	32	29	27	24
6	64	53	45	40	59	49	42	38	42	37	33	36	32	29	29	27	24	22
7	60	48	41	35	55	45	38	33	39	33	30	33	29	26	27	24	22	20
8	56	44	37	31	51	41	34	30	35	30	27	30	26	23	25	22	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	23	21	18	16
10	49	37	30	26	45	35	29	24	30	25	22	26	22	19	22	19	17	15

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	26547	26547	26547	26547
5°	29648	26712	23686	26712
10°	32893	26525	20530	26525
15°	34511	26136	16177	26136
20°	29919	25560	13998	25560
25°	19621	24772	12497	24772
30°	13207	23815	11311	23815
35°	10697	22610	10200	22610
40°	9512	21300	9440	21300
45°	8608	19763	8426	19763
50°	7834	18239	7804	18239
55°	7367	16549	7268	16549
60°	6161	14996	6090	14996
65°	5196	13620	5891	13620
70°	4801	12161	5556	12161
75°	4492	10586	5128	10586
80°	4147	8712	4575	8712
85°	3816	6873	4020	6873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.9	2.5
10°-20°	434.3	7.1
20°-30°	559.6	9.1
30°-40°	531.8	8.6
40°-50°	455.6	7.4
50°-60°	346.9	5.6
60°-70°	219.3	3.6
70°-80°	109.5	1.8
80°-90°	33.2	0.5
90°-100°	75.1	1.2
100°-110°	233.2	3.8
110°-120°	398.7	6.5
120°-130°	524.3	8.5
130°-140°	588.5	9.6
140°-150°	577.0	9.4
150°-160°	484.0	7.9
160°-170°	321.0	5.2
170°-180°	112.2	1.8
0°-30°	1149.8	18.7
0°-40°	1681.6	27.3
0°-60°	2484.1	40.3
0°-90°	2846.2	46.2
90°-120°	707.0	11.5
90°-150°	2396.8	38.9
90°-180°	3314.0	53.8
0°-180°	6160.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1829	1648	1461	1648	1829	181
15°	2065	1564	968	1564	2065	557
25°	1101	1390	702	1390	1101	523
35°	543	1147	518	1147	543	347
45°	377	866	369	866	377	292
55°	262	588	258	588	262	230
65°	136	356	154	356	136	138
75°	72	170	82	170	72	76
85°	21	37	22	37	21	23
90°	34	1	34	1	34	16
95°	62	52	62	52	62	69
105°	222	215	222	215	222	234
115°	400	400	400	400	400	395
125°	584	582	584	582	584	521
135°	762	753	762	753	762	587
145°	924	914	924	914	924	577
155°	1053	1045	1053	1045	1053	485
165°	1138	1137	1138	1137	1138	321
175°	1179	1183	1179	1183	1179	112
180°	1185	1185	1185	1185	1185	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1710.9	1712.3	1713.6	1710.4	1710.4	1707.7	1701.8	1697.2	1684.4	1682.6	1682.6
5°	1829.3	1828.1	1830.4	1823.0	1812.7	1810.4	1799.6	1785.3	1770.4	1753.9	1750.4
7.5°	1946.9	1945.2	1940.6	1939.4	1931.5	1914.3	1896.8	1878.2	1853.5	1829.4	1817.2
10°	2006.3	2025.2	2013.8	1993.7	1997.8	1970.9	1956.6	1932.1	1911.5	1875.5	1867.5
12.5°	2064.9	2072.3	2068.6	2057.3	2052.2	2033.5	2014.2	1992.9	1954.9	1922.6	1894.5
15°	2064.6	2075.4	2078.3	2074.9	2077.8	2076.6	2066.3	2048.6	2015.5	1980.0	1949.2
17.5°	1912.2	1919.8	1938.5	1951.1	1967.1	2001.0	2017.7	2024.1	2019.2	1999.0	1977.3
20°	1741.3	1728.7	1781.2	1808.1	1830.9	1888.1	1937.2	1956.1	1986.3	1985.8	1980.0
22.5°	1499.0	1502.0	1551.9	1583.7	1650.5	1707.5	1763.6	1834.5	1893.1	1931.8	1954.5
25°	1101.4	1123.2	1172.9	1216.2	1290.6	1396.8	1493.3	1605.3	1711.0	1794.4	1873.8
27.5°	827.2	828.8	868.2	908.4	952.4	1039.5	1161.1	1294.8	1445.4	1569.8	1712.8
30°	708.4	705.0	721.5	746.1	783.8	851.2	942.6	1074.0	1224.3	1411.6	1578.5
32.5°	624.3	624.5	637.0	655.1	686.5	731.9	794.5	901.3	1043.3	1227.4	1423.1
35°	542.7	542.2	551.3	564.4	577.6	606.7	649.5	705.5	803.2	975.2	1175.1
37.5°	484.2	486.7	491.2	499.4	513.9	530.1	555.9	593.5	663.1	764.7	932.8
40°	451.3	452.5	458.7	465.6	474.2	486.7	507.9	538.1	589.0	670.1	792.9
42.5°	421.1	422.3	426.7	433.2	439.9	452.5	469.9	496.1	537.4	600.6	702.0
45°	377.0	377.0	381.1	383.9	391.3	402.8	417.1	438.8	467.3	514.2	581.6
47.5°	335.7	335.8	338.5	343.4	348.0	357.0	371.0	388.7	409.5	445.7	503.3
50°	311.9	312.5	314.2	318.2	321.1	329.1	339.9	355.3	377.0	405.0	453.1
52.5°	292.7	292.4	294.5	296.3	298.3	303.9	312.0	325.6	345.1	369.4	409.1
55°	261.7	259.3	262.8	265.6	267.3	269.7	274.2	282.8	299.4	319.9	349.7
57.5°	222.8	221.9	224.3	226.9	232.3	238.4	242.4	247.8	256.4	271.1	300.6
60°	190.8	190.8	196.0	197.7	204.0	212.0	220.0	224.5	233.1	242.8	264.5
62.5°	162.5	162.9	165.3	167.0	170.6	180.4	191.6	201.6	209.7	219.0	233.4
65°	136.0	137.1	137.1	138.3	140.5	142.8	147.4	155.4	169.7	182.8	193.6
67.5°	115.4	115.7	116.1	117.3	117.8	120.3	122.2	125.7	129.0	141.5	154.9
70°	101.7	103.4	102.8	104.0	104.5	105.6	108.0	109.7	114.9	117.7	125.7
72.5°	88.9	90.1	90.1	90.7	92.2	92.5	94.3	96.0	99.3	101.7	106.0
75°	72.0	71.4	72.0	73.1	73.7	74.3	74.3	76.5	78.3	80.6	83.4
77.5°	55.5	56.1	56.0	56.1	56.2	57.3	57.2	58.1	59.8	61.0	62.4
80°	44.6	45.1	44.6	45.1	45.7	46.2	45.7	46.2	48.0	49.2	49.2
82.5°	34.5	34.6	35.0	35.0	35.2	35.3	36.1	36.2	37.5	37.3	37.7
85°	20.6	20.0	20.0	20.0	20.6	21.1	20.6	20.6	21.1	21.1	21.1
87.5°	14.1	14.6	14.5	14.5	14.4	14.4	14.5	15.1	14.7	15.2	13.8
90°	34.0	33.8	33.6	33.3	33.1	33.2	33.7	34.1	34.5	35.0	30.1
92.5°	32.4	32.4	32.3	32.3	32.2	32.2	32.0	31.9	31.9	31.8	30.7
95°	62.0	62.4	62.9	63.4	63.8	64.0	64.0	64.0	64.0	64.0	63.5
97.5°	107.5	107.5	107.5	107.5	107.6	107.6	107.6	107.6	107.6	107.6	106.8
100°	137.0	137.2	137.5	137.7	137.9	138.0	138.0	138.0	138.0	138.0	137.3
102.5°	170.7	170.8	171.1	171.3	171.5	171.5	171.3	171.2	171.0	170.8	170.0
105°	222.1	222.1	222.1	222.1	222.1	221.8	221.4	220.9	220.5	220.0	219.6
107.5°	270.4	271.5	272.5	273.5	274.5	274.9	274.7	274.6	274.4	274.2	274.2
110°	308.1	308.7	309.4	310.0	310.7	311.1	311.1	311.1	311.1	311.1	311.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	344.1	344.6	345.0	345.5	346.0	346.6	347.1	347.6	348.1	348.6	348.8
115°	400.0	400.7	401.4	402.1	402.7	403.1	403.4	403.6	403.8	404.1	404.5
117.5°	453.5	454.1	454.8	455.5	456.2	456.8	457.3	457.8	458.3	458.8	460.1
120°	491.0	491.7	492.4	493.1	493.7	494.0	494.0	494.0	494.0	494.0	495.8
122.5°	527.9	528.4	528.8	529.3	529.9	530.3	530.9	531.4	531.9	532.4	533.7
125°	584.1	584.3	584.5	584.7	585.0	585.4	586.1	586.8	587.4	588.1	588.8
127.5°	635.2	636.0	636.7	637.4	638.1	638.9	639.6	640.5	641.3	642.0	642.9
130°	672.1	673.0	673.8	674.8	675.6	676.3	676.7	677.2	677.6	678.1	678.6
132.5°	707.3	708.0	708.7	709.5	710.2	711.0	712.0	712.9	713.9	714.9	714.8
135°	762.1	762.8	763.4	764.1	764.7	765.2	765.4	765.7	765.9	766.1	765.7
137.5°	811.7	812.6	813.5	814.3	815.3	815.8	816.0	816.1	816.3	816.5	815.9
140°	846.1	847.0	847.9	848.8	849.6	850.1	850.1	850.1	850.1	850.1	849.0
142.5°	877.3	878.2	879.1	879.9	880.9	881.2	881.1	880.9	880.7	880.5	879.8
145°	924.1	925.0	925.9	926.8	927.6	928.0	927.8	927.6	927.3	927.1	925.7
147.5°	966.0	966.7	967.6	968.5	969.3	969.5	969.0	968.5	968.0	967.5	966.6
150°	993.2	993.8	994.5	995.1	995.8	995.8	995.1	994.5	993.8	993.2	992.2
152.5°	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1	1021.2	1020.5	1019.6	1018.7	1017.7
155°	1053.1	1053.8	1054.5	1055.2	1055.8	1055.6	1054.5	1053.3	1052.2	1051.1	1050.5
157.5°	1082.7	1083.8	1084.9	1085.9	1087.0	1086.8	1085.3	1083.7	1082.3	1080.7	1080.3
160°	1101.1	1102.0	1102.9	1103.8	1104.7	1104.5	1103.1	1101.8	1100.4	1099.2	1098.9
162.5°	1117.1	1118.2	1119.3	1120.3	1121.4	1121.2	1119.6	1118.2	1116.6	1115.2	1114.9
165°	1138.2	1139.3	1140.4	1141.5	1142.5	1142.4	1140.8	1139.3	1137.7	1136.2	1136.2
167.5°	1155.4	1156.5	1157.6	1158.8	1159.9	1159.8	1158.2	1156.7	1155.1	1153.6	1153.6
170°	1164.2	1165.4	1166.8	1168.1	1169.5	1169.3	1167.8	1166.2	1164.7	1163.1	1163.4
172.5°	1171.3	1172.7	1174.0	1175.4	1176.6	1176.6	1175.0	1173.5	1171.9	1170.4	1170.5
175°	1179.1	1180.5	1181.8	1183.2	1184.5	1184.4	1182.8	1181.3	1179.7	1178.1	1178.6
177.5°	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0	1185.9	1184.9	1183.8	1182.8	1183.1
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1683.4	1679.8	1676.6	1668.4	1664.2	1655.1	1653.7	1653.3	1641.4	1630.0	1626.8
5°	1741.3	1732.2	1718.4	1702.5	1685.8	1668.7	1657.3	1648.1	1625.3	1603.6	1591.0
7.5°	1799.6	1779.9	1756.3	1726.0	1700.7	1672.4	1651.3	1632.5	1600.1	1569.0	1548.1
10°	1843.0	1810.9	1779.5	1737.8	1705.3	1673.3	1643.6	1617.9	1581.3	1540.2	1511.1
12.5°	1869.9	1834.7	1791.4	1750.7	1708.5	1667.8	1628.1	1595.0	1552.0	1509.6	1474.9
15°	1906.3	1868.6	1816.1	1757.8	1703.6	1650.5	1604.7	1563.6	1507.6	1456.7	1414.5
17.5°	1936.2	1884.3	1827.9	1760.5	1697.6	1630.1	1571.2	1518.7	1456.4	1395.1	1345.2
20°	1945.8	1894.4	1829.3	1761.9	1687.6	1608.2	1544.7	1487.6	1420.7	1353.9	1296.8
22.5°	1939.8	1899.9	1827.4	1746.7	1670.7	1587.6	1516.0	1449.7	1375.5	1307.3	1241.0
25°	1899.5	1885.8	1817.2	1729.2	1642.4	1545.9	1463.0	1390.5	1306.0	1232.9	1160.8
27.5°	1805.5	1835.0	1792.6	1698.8	1602.3	1498.8	1405.7	1323.1	1235.4	1153.1	1081.3
30°	1715.0	1783.0	1764.7	1677.8	1569.9	1468.2	1363.7	1277.4	1183.7	1099.2	1028.3
32.5°	1591.1	1703.4	1721.3	1648.6	1537.0	1425.2	1315.7	1229.9	1132.0	1042.9	973.9
35°	1394.0	1561.9	1639.0	1592.8	1480.7	1360.2	1247.1	1147.1	1048.9	960.9	892.3
37.5°	1158.6	1387.4	1516.0	1519.2	1416.4	1291.1	1167.9	1068.7	968.1	881.8	807.5
40°	1006.0	1254.0	1421.3	1458.4	1371.7	1236.2	1111.7	1010.6	912.3	827.8	742.7
42.5°	868.9	1115.9	1321.7	1386.3	1317.2	1182.8	1057.8	952.1	856.6	776.6	689.7
45°	702.7	918.6	1145.4	1260.8	1222.5	1098.0	966.0	865.5	775.8	706.7	623.3
47.5°	592.8	744.9	964.4	1120.5	1119.8	1006.2	876.3	780.1	696.8	632.1	564.6
50°	530.1	662.7	848.3	1025.5	1040.3	944.9	821.5	726.1	648.4	580.4	526.2
52.5°	473.9	583.2	750.1	919.9	962.2	879.5	759.8	671.8	596.3	533.8	487.3
55°	400.5	485.0	611.8	770.7	834.7	776.4	670.1	587.9	526.8	474.2	434.2
57.5°	338.8	402.2	503.9	631.8	706.4	669.7	582.0	515.2	462.9	415.3	383.7
60°	299.9	351.9	438.2	545.0	627.2	601.6	526.8	464.4	419.9	378.8	349.0
62.5°	263.4	308.1	381.9	468.6	544.1	533.5	472.3	420.1	381.1	343.5	318.4
65°	212.0	244.5	302.2	370.2	430.8	435.9	391.9	356.5	321.7	292.0	269.7
67.5°	168.8	190.0	230.7	287.9	333.3	349.5	322.6	295.6	267.9	245.0	225.7
70°	142.2	159.4	189.1	235.4	277.1	294.2	278.8	257.6	233.7	214.8	198.2
72.5°	115.3	132.0	153.9	187.9	223.6	242.1	236.8	221.5	202.1	186.5	170.8
75°	86.9	92.0	106.9	129.7	157.6	173.7	177.7	169.7	154.2	142.2	133.1
77.5°	64.2	67.3	74.4	86.4	104.7	118.9	124.8	123.8	113.2	106.2	97.7
80°	51.4	53.1	56.6	61.7	75.4	89.7	93.7	93.7	86.3	83.4	74.8
82.5°	39.1	40.3	42.4	45.2	51.7	64.1	68.5	69.5	64.7	61.0	54.2
85°	22.3	21.7	22.8	24.5	25.7	29.1	36.0	37.1	36.0	31.4	29.7
87.5°	12.8	12.3	11.3	10.1	10.0	10.0	11.7	13.4	12.1	11.3	10.9
90°	25.2	20.3	15.4	11.7	9.0	6.4	3.7	1.0	3.7	6.4	9.0
92.5°	29.5	28.3	27.2	25.7	23.7	21.7	19.7	17.8	19.7	21.7	23.7
95°	63.1	62.7	62.3	60.9	58.6	56.5	54.2	52.0	54.2	56.5	58.6
97.5°	105.9	105.0	104.3	102.8	100.9	98.9	96.9	95.1	96.9	98.9	100.9
100°	136.6	136.0	135.3	134.1	132.3	130.6	128.8	127.0	128.8	130.6	132.3
102.5°	169.1	168.3	167.5	166.3	164.9	163.5	162.0	160.7	162.0	163.5	164.9
105°	219.1	218.7	218.3	217.7	217.1	216.4	215.7	215.0	215.7	216.4	217.1
107.5°	274.2	274.2	274.2	273.7	272.8	271.8	270.8	269.8	270.8	271.8	272.8
110°	311.1	311.1	311.1	310.4	309.0	307.7	306.3	305.1	306.3	307.7	309.0





TEST NUMBER: P331730-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.0	349.1	349.4	348.8	347.4	346.1	344.7	343.5	344.7	346.1	347.4
115°	404.9	405.4	405.8	405.4	404.1	402.7	401.4	400.0	401.4	402.7	404.1
117.5°	461.3	462.6	463.8	463.6	461.8	460.0	458.2	456.4	458.2	460.0	461.8
120°	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0	495.8	497.7	499.4
122.5°	534.9	536.2	537.4	537.0	534.9	532.7	530.6	528.5	530.6	532.7	534.9
125°	589.4	590.0	590.7	590.0	588.1	586.1	584.1	582.0	584.1	586.1	588.1
127.5°	643.7	644.5	645.3	644.4	641.9	639.4	636.8	634.3	636.8	639.4	641.9
130°	679.0	679.4	679.8	678.6	675.7	672.9	669.9	667.1	669.9	672.9	675.7
132.5°	714.7	714.6	714.5	713.3	710.9	708.6	706.3	703.9	706.3	708.6	710.9
135°	765.2	764.7	764.3	762.8	760.4	758.0	755.5	753.1	755.5	758.0	760.4
137.5°	815.4	814.8	814.2	812.9	810.9	808.9	806.9	804.9	806.9	808.9	810.9
140°	847.9	846.8	845.7	844.1	842.1	840.1	838.1	836.1	838.1	840.1	842.1
142.5°	879.0	878.2	877.4	876.1	874.1	872.1	870.1	868.1	870.1	872.1	874.1
145°	924.5	923.1	921.8	920.3	918.8	917.2	915.7	914.1	915.7	917.2	918.8
147.5°	965.8	964.8	964.0	962.6	960.7	958.8	957.0	955.1	957.0	958.8	960.7
150°	991.4	990.5	989.5	988.4	987.1	985.8	984.5	983.1	984.5	985.8	987.1
152.5°	1016.6	1015.5	1014.4	1013.2	1011.9	1010.6	1009.3	1007.9	1009.3	1010.6	1011.9
155°	1049.8	1049.1	1048.4	1047.8	1047.1	1046.5	1045.8	1045.2	1045.8	1046.5	1047.1
157.5°	1080.0	1079.5	1079.1	1078.7	1078.2	1077.8	1077.4	1076.9	1077.4	1077.8	1078.2
160°	1098.7	1098.5	1098.2	1097.9	1097.4	1097.0	1096.6	1096.1	1096.6	1097.0	1097.4
162.5°	1114.7	1114.5	1114.2	1114.1	1114.0	1113.9	1113.8	1113.7	1113.8	1113.9	1114.0
165°	1136.2	1136.2	1136.2	1136.3	1136.4	1136.7	1137.0	1137.1	1137.0	1136.7	1136.4
167.5°	1153.7	1153.7	1153.7	1154.1	1154.8	1155.4	1156.1	1156.8	1156.1	1155.4	1154.8
170°	1163.6	1163.8	1164.1	1164.5	1165.1	1165.8	1166.5	1167.2	1166.5	1165.8	1165.1
172.5°	1170.8	1171.0	1171.2	1171.6	1172.3	1173.0	1173.7	1174.3	1173.7	1173.0	1172.3
175°	1179.1	1179.5	1179.9	1180.5	1181.1	1181.8	1182.5	1183.2	1182.5	1181.8	1181.1
177.5°	1183.4	1183.8	1184.1	1184.6	1185.2	1185.7	1186.2	1186.7	1186.2	1185.7	1185.2
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331730-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1620.8	1617.6	1611.7	1602.6	1597.1	1587.5	1581.1	1584.8	1585.6	1584.8	1583.8
5°	1577.3	1565.3	1548.8	1532.8	1517.9	1501.9	1492.7	1488.8	1480.7	1476.2	1473.9
7.5°	1524.7	1504.0	1480.5	1452.7	1429.0	1404.2	1391.5	1385.3	1368.9	1359.9	1352.2
10°	1485.3	1452.8	1429.3	1392.8	1370.5	1337.9	1315.7	1316.2	1293.9	1281.3	1272.2
12.5°	1441.9	1406.2	1367.2	1334.3	1303.3	1277.1	1250.3	1239.4	1215.8	1203.7	1179.0
15°	1369.9	1328.3	1287.1	1242.5	1211.1	1170.5	1131.7	1084.3	1046.0	1012.9	1003.8
17.5°	1291.3	1239.7	1198.4	1146.1	1092.3	1024.1	979.0	951.5	928.4	910.9	897.9
20°	1237.4	1184.8	1140.8	1062.0	989.5	943.2	910.1	888.9	865.0	846.1	835.8
22.5°	1180.7	1125.8	1065.9	977.9	921.4	884.2	854.7	830.4	814.2	799.4	790.1
25°	1100.3	1040.3	941.5	880.9	835.2	796.3	775.8	761.0	743.8	723.8	714.6
27.5°	1015.3	919.9	848.9	803.9	760.3	735.0	716.5	694.3	679.0	670.0	660.5
30°	951.7	856.4	800.9	751.8	720.9	692.9	671.2	658.7	643.9	628.4	622.2
32.5°	880.9	804.7	751.6	710.7	679.3	655.5	638.3	618.0	607.3	597.8	584.6
35°	792.9	735.2	686.6	653.6	623.9	604.4	584.4	572.4	553.0	545.0	539.8
37.5°	718.4	668.4	632.1	597.2	573.7	552.2	539.9	520.9	512.5	501.4	490.5
40°	676.4	627.2	592.5	563.9	537.6	521.6	506.2	490.8	478.2	473.0	459.9
42.5°	633.4	593.5	558.6	527.3	509.7	492.8	473.3	461.9	448.9	440.6	432.5
45°	574.1	538.7	509.0	483.3	463.9	446.2	433.6	414.7	407.3	390.7	383.9
47.5°	522.0	489.1	460.8	436.4	417.4	405.9	387.4	372.7	360.8	350.7	341.8
50°	485.0	457.6	430.2	408.5	391.3	374.8	355.9	348.4	330.2	325.0	319.9
52.5°	451.2	425.2	400.0	378.8	361.6	345.5	328.9	319.3	306.9	301.8	298.0
55°	403.9	378.8	354.7	335.9	318.7	302.2	292.0	279.9	274.2	270.2	265.6
57.5°	356.4	333.7	315.4	296.3	279.1	265.9	254.0	246.8	240.8	235.6	230.1
60°	326.2	304.4	287.9	270.2	252.5	241.7	232.5	223.9	217.1	209.1	206.8
62.5°	294.2	275.3	260.0	242.8	227.4	217.4	208.7	200.6	192.4	180.7	177.5
65°	250.2	235.4	219.4	205.1	191.4	181.7	169.1	160.0	156.5	155.4	154.8
67.5°	210.4	196.4	182.7	168.1	155.6	146.6	140.2	138.8	136.4	135.7	134.1
70°	183.9	170.8	157.1	143.4	131.4	129.7	127.4	125.1	122.3	121.1	119.9
72.5°	160.1	146.6	132.9	121.9	116.8	114.6	112.3	110.0	108.1	106.9	106.2
75°	122.9	110.3	101.1	97.1	94.3	92.6	89.1	87.4	86.3	84.6	83.9
77.5°	88.4	81.4	77.1	74.6	71.6	69.8	67.8	66.1	64.9	64.6	63.6
80°	67.4	64.0	61.1	57.7	56.6	54.2	53.7	52.0	52.5	50.9	50.9
82.5°	52.3	48.0	45.5	44.0	42.9	41.0	40.5	39.6	39.8	38.5	38.5
85°	26.9	25.7	24.5	23.4	23.4	21.7	22.3	21.7	21.7	20.6	20.0
87.5°	11.0	11.3	11.4	12.4	13.3	13.9	13.8	13.3	13.2	13.0	12.6
90°	11.7	15.4	20.3	25.2	30.1	35.0	34.5	34.1	33.7	33.2	33.1
92.5°	25.7	27.2	28.3	29.5	30.7	31.8	31.9	31.9	32.0	32.2	32.2
95°	60.9	62.3	62.7	63.1	63.5	64.0	64.0	64.0	64.0	64.0	63.8
97.5°	102.8	104.3	105.0	105.9	106.8	107.6	107.6	107.6	107.6	107.6	107.6
100°	134.1	135.3	136.0	136.6	137.3	138.0	138.0	138.0	138.0	138.0	137.9
102.5°	166.3	167.5	168.3	169.1	170.0	170.8	171.0	171.2	171.3	171.5	171.5
105°	217.7	218.3	218.7	219.1	219.6	220.0	220.5	220.9	221.4	221.8	222.1
107.5°	273.7	274.2	274.2	274.2	274.2	274.2	274.4	274.6	274.7	274.9	274.5
110°	310.4	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	310.7



TEST NUMBER: P331730-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	348.8	349.4	349.1	349.0	348.8	348.6	348.1	347.6	347.1	346.6	346.0
115°	405.4	405.8	405.4	404.9	404.5	404.1	403.8	403.6	403.4	403.1	402.7
117.5°	463.6	463.8	462.6	461.3	460.1	458.8	458.3	457.8	457.3	456.8	456.2
120°	501.2	501.2	499.4	497.7	495.8	494.0	494.0	494.0	494.0	494.0	493.7
122.5°	537.0	537.4	536.2	534.9	533.7	532.4	531.9	531.4	530.9	530.3	529.9
125°	590.0	590.7	590.0	589.4	588.8	588.1	587.4	586.8	586.1	585.4	585.0
127.5°	644.4	645.3	644.5	643.7	642.9	642.0	641.3	640.5	639.6	638.9	638.1
130°	678.6	679.8	679.4	679.0	678.6	678.1	677.6	677.2	676.7	676.3	675.6
132.5°	713.3	714.5	714.6	714.7	714.8	714.9	713.9	712.9	712.0	711.0	710.2
135°	762.8	764.3	764.7	765.2	765.7	766.1	765.9	765.7	765.4	765.2	764.7
137.5°	812.9	814.2	814.8	815.4	815.9	816.5	816.3	816.1	816.0	815.8	815.3
140°	844.1	845.7	846.8	847.9	849.0	850.1	850.1	850.1	850.1	850.1	849.6
142.5°	876.1	877.4	878.2	879.0	879.8	880.5	880.7	880.9	881.1	881.2	880.9
145°	920.3	921.8	923.1	924.5	925.7	927.1	927.3	927.6	927.8	928.0	927.6
147.5°	962.6	964.0	964.8	965.8	966.6	967.5	968.0	968.5	969.0	969.5	969.3
150°	988.4	989.5	990.5	991.4	992.2	993.2	993.8	994.5	995.1	995.8	995.8
152.5°	1013.2	1014.4	1015.5	1016.6	1017.7	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1
155°	1047.8	1048.4	1049.1	1049.8	1050.5	1051.1	1052.2	1053.3	1054.5	1055.6	1055.8
157.5°	1078.7	1079.1	1079.5	1080.0	1080.3	1080.7	1082.3	1083.7	1085.3	1086.8	1087.0
160°	1097.9	1098.2	1098.5	1098.7	1098.9	1099.2	1100.4	1101.8	1103.1	1104.5	1104.7
162.5°	1114.1	1114.2	1114.5	1114.7	1114.9	1115.2	1116.6	1118.2	1119.6	1121.2	1121.4
165°	1136.3	1136.2	1136.2	1136.2	1136.2	1136.2	1137.7	1139.3	1140.8	1142.4	1142.5
167.5°	1154.1	1153.7	1153.7	1153.7	1153.6	1153.6	1155.1	1156.7	1158.2	1159.8	1159.9
170°	1164.5	1164.1	1163.8	1163.6	1163.4	1163.1	1164.7	1166.2	1167.8	1169.3	1169.5
172.5°	1171.6	1171.2	1171.0	1170.8	1170.5	1170.4	1171.9	1173.5	1175.0	1176.6	1176.6
175°	1180.5	1179.9	1179.5	1179.1	1178.6	1178.1	1179.7	1181.3	1182.8	1184.4	1184.5
177.5°	1184.6	1184.1	1183.8	1183.4	1183.1	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331730-935

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1578.8	1579.7	1578.3	1579.2	1578.3	1579.7	1578.8	1583.8	1584.8	1585.6	1584.8
5°	1471.0	1464.2	1463.0	1461.4	1463.0	1464.2	1471.0	1473.9	1476.2	1480.7	1488.8
7.5°	1342.4	1341.4	1338.5	1334.6	1338.5	1341.4	1342.4	1352.2	1359.9	1368.9	1385.3
10°	1259.6	1256.8	1256.3	1252.2	1256.3	1256.8	1259.6	1272.2	1281.3	1293.9	1316.2
12.5°	1162.8	1144.4	1142.5	1132.5	1142.5	1144.4	1162.8	1179.0	1203.7	1215.8	1239.4
15°	990.1	986.6	975.2	967.8	975.2	986.6	990.1	1003.8	1012.9	1046.0	1084.3
17.5°	891.3	880.1	876.6	874.9	876.6	880.1	891.3	897.9	910.9	928.4	951.5
20°	827.8	817.5	815.8	814.7	815.8	817.5	827.8	835.8	846.1	865.0	888.9
22.5°	783.9	773.2	768.7	765.3	768.7	773.2	783.9	790.1	799.4	814.2	830.4
25°	708.9	705.0	702.7	701.5	702.7	705.0	708.9	714.6	723.8	743.8	761.0
27.5°	650.3	641.5	639.8	636.9	639.8	641.5	650.3	660.5	670.0	679.0	694.3
30°	617.0	614.2	610.1	606.7	610.1	614.2	617.0	622.2	628.4	643.9	658.7
32.5°	577.6	575.3	571.7	570.2	571.7	575.3	577.6	584.6	597.8	607.3	618.0
35°	534.2	526.2	522.7	517.5	522.7	526.2	534.2	539.8	545.0	553.0	572.4
37.5°	488.1	483.9	479.1	480.8	479.1	483.9	488.1	490.5	501.4	512.5	520.9
40°	452.5	449.6	448.5	447.9	448.5	449.6	452.5	459.9	473.0	478.2	490.8
42.5°	424.1	416.2	413.3	413.1	413.3	416.2	424.1	432.5	440.6	448.9	461.9
45°	381.1	373.6	368.5	369.0	368.5	373.6	381.1	383.9	390.7	407.3	414.7
47.5°	336.9	336.7	333.6	334.6	333.6	336.7	336.9	341.8	350.7	360.8	372.7
50°	315.9	312.5	310.2	310.7	310.2	312.5	315.9	319.9	325.0	330.2	348.4
52.5°	295.8	292.8	291.0	293.4	291.0	292.8	295.8	298.0	301.8	306.9	319.3
55°	262.8	259.3	258.8	258.2	258.8	259.3	262.8	265.6	270.2	274.2	279.9
57.5°	225.9	223.6	220.2	218.7	220.2	223.6	225.9	230.1	235.6	240.8	246.8
60°	199.4	194.8	189.1	188.6	189.1	194.8	199.4	206.8	209.1	217.1	223.9
62.5°	175.1	174.3	173.1	173.0	173.1	174.3	175.1	177.5	180.7	192.4	200.6
65°	153.7	153.1	153.7	154.2	153.7	153.1	153.7	154.8	155.4	156.5	160.0
67.5°	133.9	132.9	131.8	132.3	131.8	132.9	133.9	134.1	135.7	136.4	138.8
70°	118.8	118.2	117.7	117.7	117.7	118.2	118.8	119.9	121.1	122.3	125.1
72.5°	104.2	104.1	103.5	103.1	103.5	104.1	104.2	106.2	106.9	108.1	110.0
75°	83.4	82.2	82.2	82.2	82.2	82.2	83.4	83.9	84.6	86.3	87.4
77.5°	63.5	62.9	62.4	61.9	62.4	62.9	63.5	63.6	64.6	64.9	66.1
80°	50.3	49.7	49.2	49.2	49.2	49.7	50.3	50.9	50.9	52.5	52.0
82.5°	38.4	37.8	37.7	37.3	37.7	37.8	38.4	38.5	38.5	39.8	39.6
85°	20.6	21.1	20.6	21.7	20.6	21.1	20.6	20.0	20.6	21.7	21.7
87.5°	12.6	12.2	12.7	12.3	12.7	12.2	12.6	12.6	13.0	13.2	13.3
90°	33.3	33.6	33.8	34.0	33.8	33.6	33.3	33.1	33.2	33.7	34.1
92.5°	32.3	32.3	32.4	32.4	32.4	32.3	32.3	32.2	32.2	32.0	31.9
95°	63.4	62.9	62.4	62.0	62.4	62.9	63.4	63.8	64.0	64.0	64.0
97.5°	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.6	107.6	107.6	107.6
100°	137.7	137.5	137.2	137.0	137.2	137.5	137.7	137.9	138.0	138.0	138.0
102.5°	171.3	171.1	170.8	170.7	170.8	171.1	171.3	171.5	171.5	171.3	171.2
105°	222.1	222.1	222.1	222.1	222.1	222.1	222.1	222.1	221.8	221.4	220.9
107.5°	273.5	272.5	271.5	270.4	271.5	272.5	273.5	274.5	274.9	274.7	274.6
110°	310.0	309.4	308.7	308.1	308.7	309.4	310.0	310.7	311.1	311.1	311.1



TEST NUMBER: P331730-935

CATALOG NUMBER: SA2XXRDIP-C865D1080U935-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	345.5	345.0	344.6	344.1	344.6	345.0	345.5	346.0	346.6	347.1	347.6
115°	402.1	401.4	400.7	400.0	400.7	401.4	402.1	402.7	403.1	403.4	403.6
117.5°	455.5	454.8	454.1	453.5	454.1	454.8	455.5	456.2	456.8	457.3	457.8
120°	493.1	492.4	491.7	491.0	491.7	492.4	493.1	493.7	494.0	494.0	494.0
122.5°	529.3	528.8	528.4	527.9	528.4	528.8	529.3	529.9	530.3	530.9	531.4
125°	584.7	584.5	584.3	584.1	584.3	584.5	584.7	585.0	585.4	586.1	586.8
127.5°	637.4	636.7	636.0	635.2	636.0	636.7	637.4	638.1	638.9	639.6	640.5
130°	674.8	673.8	673.0	672.1	673.0	673.8	674.8	675.6	676.3	676.7	677.2
132.5°	709.5	708.7	708.0	707.3	708.0	708.7	709.5	710.2	711.0	712.0	712.9
135°	764.1	763.4	762.8	762.1	762.8	763.4	764.1	764.7	765.2	765.4	765.7
137.5°	814.3	813.5	812.6	811.7	812.6	813.5	814.3	815.3	815.8	816.0	816.1
140°	848.8	847.9	847.0	846.1	847.0	847.9	848.8	849.6	850.1	850.1	850.1
142.5°	879.9	879.1	878.2	877.3	878.2	879.1	879.9	880.9	881.2	881.1	880.9
145°	926.8	925.9	925.0	924.1	925.0	925.9	926.8	927.6	928.0	927.8	927.6
147.5°	968.5	967.6	966.7	966.0	966.7	967.6	968.5	969.3	969.5	969.0	968.5
150°	995.1	994.5	993.8	993.2	993.8	994.5	995.1	995.8	995.8	995.1	994.5
152.5°	1021.2	1020.5	1019.6	1018.7	1019.6	1020.5	1021.2	1022.1	1022.1	1021.2	1020.5
155°	1055.2	1054.5	1053.8	1053.1	1053.8	1054.5	1055.2	1055.8	1055.6	1054.5	1053.3
157.5°	1085.9	1084.9	1083.8	1082.7	1083.8	1084.9	1085.9	1087.0	1086.8	1085.3	1083.7
160°	1103.8	1102.9	1102.0	1101.1	1102.0	1102.9	1103.8	1104.7	1104.5	1103.1	1101.8
162.5°	1120.3	1119.3	1118.2	1117.1	1118.2	1119.3	1120.3	1121.4	1121.2	1119.6	1118.2
165°	1141.5	1140.4	1139.3	1138.2	1139.3	1140.4	1141.5	1142.5	1142.4	1140.8	1139.3
167.5°	1158.8	1157.6	1156.5	1155.4	1156.5	1157.6	1158.8	1159.9	1159.8	1158.2	1156.7
170°	1168.1	1166.8	1165.4	1164.2	1165.4	1166.8	1168.1	1169.5	1169.3	1167.8	1166.2
172.5°	1175.4	1174.0	1172.7	1171.3	1172.7	1174.0	1175.4	1176.6	1176.6	1175.0	1173.5
175°	1183.2	1181.8	1180.5	1179.1	1180.5	1181.8	1183.2	1184.5	1184.4	1182.8	1181.3
177.5°	1185.9	1184.9	1183.8	1182.8	1183.8	1184.9	1185.9	1187.0	1187.0	1185.9	1184.9
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331730-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1581.1	1587.5	1597.1	1602.6	1611.7	1617.6	1620.8	1626.8	1630.0	1641.4	1653.3
5°	1492.7	1501.9	1517.9	1532.8	1548.8	1565.3	1577.3	1591.0	1603.6	1625.3	1648.1
7.5°	1391.5	1404.2	1429.0	1452.7	1480.5	1504.0	1524.7	1548.1	1569.0	1600.1	1632.5
10°	1315.7	1337.9	1370.5	1392.8	1429.3	1452.8	1485.3	1511.1	1540.2	1581.3	1617.9
12.5°	1250.3	1277.1	1303.3	1334.3	1367.2	1406.2	1441.9	1474.9	1509.6	1552.0	1595.0
15°	1131.7	1170.5	1211.1	1242.5	1287.1	1328.3	1369.9	1414.5	1456.7	1507.6	1563.6
17.5°	979.0	1024.1	1092.3	1146.1	1198.4	1239.7	1291.3	1345.2	1395.1	1456.4	1518.7
20°	910.1	943.2	989.5	1062.0	1140.8	1184.8	1237.4	1296.8	1353.9	1420.7	1487.6
22.5°	854.7	884.2	921.4	977.9	1065.9	1125.8	1180.7	1241.0	1307.3	1375.5	1449.7
25°	775.8	796.3	835.2	880.9	941.5	1040.3	1100.3	1160.8	1232.9	1306.0	1390.5
27.5°	716.5	735.0	760.3	803.9	848.9	919.9	1015.3	1081.3	1153.1	1235.4	1323.1
30°	671.2	692.9	720.9	751.8	800.9	856.4	951.7	1028.3	1099.2	1183.7	1277.4
32.5°	638.3	655.5	679.3	710.7	751.6	804.7	880.9	973.9	1042.9	1132.0	1229.9
35°	584.4	604.4	623.9	653.6	686.6	735.2	792.9	892.3	960.9	1048.9	1147.1
37.5°	539.9	552.2	573.7	597.2	632.1	668.4	718.4	807.5	881.8	968.1	1068.7
40°	506.2	521.6	537.6	563.9	592.5	627.2	676.4	742.7	827.8	912.3	1010.6
42.5°	473.3	492.8	509.7	527.3	558.6	593.5	633.4	689.7	776.6	856.6	952.1
45°	433.6	446.2	463.9	483.3	509.0	538.7	574.1	623.3	706.7	775.8	865.5
47.5°	387.4	405.9	417.4	436.4	460.8	489.1	522.0	564.6	632.1	696.8	780.1
50°	355.9	374.8	391.3	408.5	430.2	457.6	485.0	526.2	580.4	648.4	726.1
52.5°	328.9	345.5	361.6	378.8	400.0	425.2	451.2	487.3	533.8	596.3	671.8
55°	292.0	302.2	318.7	335.9	354.7	378.8	403.9	434.2	474.2	526.8	587.9
57.5°	254.0	265.9	279.1	296.3	315.4	333.7	356.4	383.7	415.3	462.9	515.2
60°	232.5	241.7	252.5	270.2	287.9	304.4	326.2	349.0	378.8	419.9	464.4
62.5°	208.7	217.4	227.4	242.8	260.0	275.3	294.2	318.4	343.5	381.1	420.1
65°	169.1	181.7	191.4	205.1	219.4	235.4	250.2	269.7	292.0	321.7	356.5
67.5°	140.2	146.6	155.6	168.1	182.7	196.4	210.4	225.7	245.0	267.9	295.6
70°	127.4	129.7	131.4	143.4	157.1	170.8	183.9	198.2	214.8	233.7	257.6
72.5°	112.3	114.6	116.8	121.9	132.9	146.6	160.1	170.8	186.5	202.1	221.5
75°	89.1	92.6	94.3	97.1	101.1	110.3	122.9	133.1	142.2	154.2	169.7
77.5°	67.8	69.8	71.6	74.6	77.1	81.4	88.4	97.7	106.2	113.2	123.8
80°	53.7	54.2	56.6	57.7	61.1	64.0	67.4	74.8	83.4	86.3	93.7
82.5°	40.5	41.0	42.9	44.0	45.5	48.0	52.3	54.2	61.0	64.7	69.5
85°	22.3	21.7	23.4	23.4	24.5	25.7	26.9	29.7	31.4	36.0	37.1
87.5°	13.8	13.9	13.3	12.4	11.4	11.3	11.0	10.9	11.3	12.1	13.4
90°	34.5	35.0	30.1	25.2	20.3	15.4	11.7	9.0	6.4	3.7	1.0
92.5°	31.9	31.8	30.7	29.5	28.3	27.2	25.7	23.7	21.7	19.7	17.8
95°	64.0	64.0	63.5	63.1	62.7	62.3	60.9	58.6	56.5	54.2	52.0
97.5°	107.6	107.6	106.8	105.9	105.0	104.3	102.8	100.9	98.9	96.9	95.1
100°	138.0	138.0	137.3	136.6	136.0	135.3	134.1	132.3	130.6	128.8	127.0
102.5°	171.0	170.8	170.0	169.1	168.3	167.5	166.3	164.9	163.5	162.0	160.7
105°	220.5	220.0	219.6	219.1	218.7	218.3	217.7	217.1	216.4	215.7	215.0
107.5°	274.4	274.2	274.2	274.2	274.2	274.2	273.7	272.8	271.8	270.8	269.8
110°	311.1	311.1	311.1	311.1	311.1	311.1	310.4	309.0	307.7	306.3	305.1



TEST NUMBER: P331730-935

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**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	348.1	348.6	348.8	349.0	349.1	349.4	348.8	347.4	346.1	344.7	343.5
115°	403.8	404.1	404.5	404.9	405.4	405.8	405.4	404.1	402.7	401.4	400.0
117.5°	458.3	458.8	460.1	461.3	462.6	463.8	463.6	461.8	460.0	458.2	456.4
120°	494.0	494.0	495.8	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0
122.5°	531.9	532.4	533.7	534.9	536.2	537.4	537.0	534.9	532.7	530.6	528.5
125°	587.4	588.1	588.8	589.4	590.0	590.7	590.0	588.1	586.1	584.1	582.0
127.5°	641.3	642.0	642.9	643.7	644.5	645.3	644.4	641.9	639.4	636.8	634.3
130°	677.6	678.1	678.6	679.0	679.4	679.8	678.6	675.7	672.9	669.9	667.1
132.5°	713.9	714.9	714.8	714.7	714.6	714.5	713.3	710.9	708.6	706.3	703.9
135°	765.9	766.1	765.7	765.2	764.7	764.3	762.8	760.4	758.0	755.5	753.1
137.5°	816.3	816.5	815.9	815.4	814.8	814.2	812.9	810.9	808.9	806.9	804.9
140°	850.1	850.1	849.0	847.9	846.8	845.7	844.1	842.1	840.1	838.1	836.1
142.5°	880.7	880.5	879.8	879.0	878.2	877.4	876.1	874.1	872.1	870.1	868.1
145°	927.3	927.1	925.7	924.5	923.1	921.8	920.3	918.8	917.2	915.7	914.1
147.5°	968.0	967.5	966.6	965.8	964.8	964.0	962.6	960.7	958.8	957.0	955.1
150°	993.8	993.2	992.2	991.4	990.5	989.5	988.4	987.1	985.8	984.5	983.1
152.5°	1019.6	1018.7	1017.7	1016.6	1015.5	1014.4	1013.2	1011.9	1010.6	1009.3	1007.9
155°	1052.2	1051.1	1050.5	1049.8	1049.1	1048.4	1047.8	1047.1	1046.5	1045.8	1045.2
157.5°	1082.3	1080.7	1080.3	1080.0	1079.5	1079.1	1078.7	1078.2	1077.8	1077.4	1076.9
160°	1100.4	1099.2	1098.9	1098.7	1098.5	1098.2	1097.9	1097.4	1097.0	1096.6	1096.1
162.5°	1116.6	1115.2	1114.9	1114.7	1114.5	1114.2	1114.1	1114.0	1113.9	1113.8	1113.7
165°	1137.7	1136.2	1136.2	1136.2	1136.2	1136.2	1136.3	1136.4	1136.7	1137.0	1137.1
167.5°	1155.1	1153.6	1153.6	1153.7	1153.7	1153.7	1154.1	1154.8	1155.4	1156.1	1156.8
170°	1164.7	1163.1	1163.4	1163.6	1163.8	1164.1	1164.5	1165.1	1165.8	1166.5	1167.2
172.5°	1171.9	1170.4	1170.5	1170.8	1171.0	1171.2	1171.6	1172.3	1173.0	1173.7	1174.3
175°	1179.7	1178.1	1178.6	1179.1	1179.5	1179.9	1180.5	1181.1	1181.8	1182.5	1183.2
177.5°	1183.8	1182.8	1183.1	1183.4	1183.8	1184.1	1184.6	1185.2	1185.7	1186.2	1186.7
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



TEST NUMBER: P331730-935

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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1653.7	1655.1	1664.2	1668.4	1676.6	1679.8	1683.4	1682.6	1682.6	1684.4	1697.2
5°	1657.3	1668.7	1685.8	1702.5	1718.4	1732.2	1741.3	1750.4	1753.9	1770.4	1785.3
7.5°	1651.3	1672.4	1700.7	1726.0	1756.3	1779.9	1799.6	1817.2	1829.4	1853.5	1878.2
10°	1643.6	1673.3	1705.3	1737.8	1779.5	1810.9	1843.0	1867.5	1875.5	1911.5	1932.1
12.5°	1628.1	1667.8	1708.5	1750.7	1791.4	1834.7	1869.9	1894.5	1922.6	1954.9	1992.9
15°	1604.7	1650.5	1703.6	1757.8	1816.1	1868.6	1906.3	1949.2	1980.0	2015.5	2048.6
17.5°	1571.2	1630.1	1697.6	1760.5	1827.9	1884.3	1936.2	1977.3	1999.0	2019.2	2024.1
20°	1544.7	1608.2	1687.6	1761.9	1829.3	1894.4	1945.8	1980.0	1985.8	1986.3	1956.1
22.5°	1516.0	1587.6	1670.7	1746.7	1827.4	1899.9	1939.8	1954.5	1931.8	1893.1	1834.5
25°	1463.0	1545.9	1642.4	1729.2	1817.2	1885.8	1899.5	1873.8	1794.4	1711.0	1605.3
27.5°	1405.7	1498.8	1602.3	1698.8	1792.6	1835.0	1805.5	1712.8	1569.8	1445.4	1294.8
30°	1363.7	1468.2	1569.9	1677.8	1764.7	1783.0	1715.0	1578.5	1411.6	1224.3	1074.0
32.5°	1315.7	1425.2	1537.0	1648.6	1721.3	1703.4	1591.1	1423.1	1227.4	1043.3	901.3
35°	1247.1	1360.2	1480.7	1592.8	1639.0	1561.9	1394.0	1175.1	975.2	803.2	705.5
37.5°	1167.9	1291.1	1416.4	1519.2	1516.0	1387.4	1158.6	932.8	764.7	663.1	593.5
40°	1111.7	1236.2	1371.7	1458.4	1421.3	1254.0	1006.0	792.9	670.1	589.0	538.1
42.5°	1057.8	1182.8	1317.2	1386.3	1321.7	1115.9	868.9	702.0	600.6	537.4	496.1
45°	966.0	1098.0	1222.5	1260.8	1145.4	918.6	702.7	581.6	514.2	467.3	438.8
47.5°	876.3	1006.2	1119.8	1120.5	964.4	744.9	592.8	503.3	445.7	409.5	388.7
50°	821.5	944.9	1040.3	1025.5	848.3	662.7	530.1	453.1	405.0	377.0	355.3
52.5°	759.8	879.5	962.2	919.9	750.1	583.2	473.9	409.1	369.4	345.1	325.6
55°	670.1	776.4	834.7	770.7	611.8	485.0	400.5	349.7	319.9	299.4	282.8
57.5°	582.0	669.7	706.4	631.8	503.9	402.2	338.8	300.6	271.1	256.4	247.8
60°	526.8	601.6	627.2	545.0	438.2	351.9	299.9	264.5	242.8	233.1	224.5
62.5°	472.3	533.5	544.1	468.6	381.9	308.1	263.4	233.4	219.0	209.7	201.6
65°	391.9	435.9	430.8	370.2	302.2	244.5	212.0	193.6	182.8	169.7	155.4
67.5°	322.6	349.5	333.3	287.9	230.7	190.0	168.8	154.9	141.5	129.0	125.7
70°	278.8	294.2	277.1	235.4	189.1	159.4	142.2	125.7	117.7	114.9	109.7
72.5°	236.8	242.1	223.6	187.9	153.9	132.0	115.3	106.0	101.7	99.3	96.0
75°	177.7	173.7	157.6	129.7	106.9	92.0	86.9	83.4	80.6	78.3	76.5
77.5°	124.8	118.9	104.7	86.4	74.4	67.3	64.2	62.4	61.0	59.8	58.1
80°	93.7	89.7	75.4	61.7	56.6	53.1	51.4	49.2	49.2	48.0	46.2
82.5°	68.5	64.1	51.7	45.2	42.4	40.3	39.1	37.7	37.3	37.5	36.2
85°	36.0	29.1	25.7	24.5	22.8	21.7	22.3	21.1	21.1	21.1	20.6
87.5°	11.7	10.0	10.0	10.1	11.3	12.3	12.8	13.8	15.2	14.7	15.1
90°	3.7	6.4	9.0	11.7	15.4	20.3	25.2	30.1	35.0	34.5	34.1
92.5°	19.7	21.7	23.7	25.7	27.2	28.3	29.5	30.7	31.8	31.9	31.9
95°	54.2	56.5	58.6	60.9	62.3	62.7	63.1	63.5	64.0	64.0	64.0
97.5°	96.9	98.9	100.9	102.8	104.3	105.0	105.9	106.8	107.6	107.6	107.6
100°	128.8	130.6	132.3	134.1	135.3	136.0	136.6	137.3	138.0	138.0	138.0
102.5°	162.0	163.5	164.9	166.3	167.5	168.3	169.1	170.0	170.8	171.0	171.2
105°	215.7	216.4	217.1	217.7	218.3	218.7	219.1	219.6	220.0	220.5	220.9
107.5°	270.8	271.8	272.8	273.7	274.2	274.2	274.2	274.2	274.2	274.4	274.6
110°	306.3	307.7	309.0	310.4	311.1	311.1	311.1	311.1	311.1	311.1	311.1





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.7	346.1	347.4	348.8	349.4	349.1	349.0	348.8	348.6	348.1	347.6
115°	401.4	402.7	404.1	405.4	405.8	405.4	404.9	404.5	404.1	403.8	403.6
117.5°	458.2	460.0	461.8	463.6	463.8	462.6	461.3	460.1	458.8	458.3	457.8
120°	495.8	497.7	499.4	501.2	501.2	499.4	497.7	495.8	494.0	494.0	494.0
122.5°	530.6	532.7	534.9	537.0	537.4	536.2	534.9	533.7	532.4	531.9	531.4
125°	584.1	586.1	588.1	590.0	590.7	590.0	589.4	588.8	588.1	587.4	586.8
127.5°	636.8	639.4	641.9	644.4	645.3	644.5	643.7	642.9	642.0	641.3	640.5
130°	669.9	672.9	675.7	678.6	679.8	679.4	679.0	678.6	678.1	677.6	677.2
132.5°	706.3	708.6	710.9	713.3	714.5	714.6	714.7	714.8	714.9	713.9	712.9
135°	755.5	758.0	760.4	762.8	764.3	764.7	765.2	765.7	766.1	765.9	765.7
137.5°	806.9	808.9	810.9	812.9	814.2	814.8	815.4	815.9	816.5	816.3	816.1
140°	838.1	840.1	842.1	844.1	845.7	846.8	847.9	849.0	850.1	850.1	850.1
142.5°	870.1	872.1	874.1	876.1	877.4	878.2	879.0	879.8	880.5	880.7	880.9
145°	915.7	917.2	918.8	920.3	921.8	923.1	924.5	925.7	927.1	927.3	927.6
147.5°	957.0	958.8	960.7	962.6	964.0	964.8	965.8	966.6	967.5	968.0	968.5
150°	984.5	985.8	987.1	988.4	989.5	990.5	991.4	992.2	993.2	993.8	994.5
152.5°	1009.3	1010.6	1011.9	1013.2	1014.4	1015.5	1016.6	1017.7	1018.7	1019.6	1020.5
155°	1045.8	1046.5	1047.1	1047.8	1048.4	1049.1	1049.8	1050.5	1051.1	1052.2	1053.3
157.5°	1077.4	1077.8	1078.2	1078.7	1079.1	1079.5	1080.0	1080.3	1080.7	1082.3	1083.7
160°	1096.6	1097.0	1097.4	1097.9	1098.2	1098.5	1098.7	1098.9	1099.2	1100.4	1101.8
162.5°	1113.8	1113.9	1114.0	1114.1	1114.2	1114.5	1114.7	1114.9	1115.2	1116.6	1118.2
165°	1137.0	1136.7	1136.4	1136.3	1136.2	1136.2	1136.2	1136.2	1136.2	1137.7	1139.3
167.5°	1156.1	1155.4	1154.8	1154.1	1153.7	1153.7	1153.7	1153.6	1153.6	1155.1	1156.7
170°	1166.5	1165.8	1165.1	1164.5	1164.1	1163.8	1163.6	1163.4	1163.1	1164.7	1166.2
172.5°	1173.7	1173.0	1172.3	1171.6	1171.2	1171.0	1170.8	1170.5	1170.4	1171.9	1173.5
175°	1182.5	1181.8	1181.1	1180.5	1179.9	1179.5	1179.1	1178.6	1178.1	1179.7	1181.3
177.5°	1186.2	1185.7	1185.2	1184.6	1184.1	1183.8	1183.4	1183.1	1182.8	1183.8	1184.9
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2	1644.2
2.5°	1701.8	1707.7	1710.4	1710.4	1713.6	1712.3	1710.9
5°	1799.6	1810.4	1812.7	1823.0	1830.4	1828.1	1829.3
7.5°	1896.8	1914.3	1931.5	1939.4	1940.6	1945.2	1946.9
10°	1956.6	1970.9	1997.8	1993.7	2013.8	2025.2	2006.3
12.5°	2014.2	2033.5	2052.2	2057.3	2068.6	2072.3	2064.9
15°	2066.3	2076.6	2077.8	2074.9	2078.3	2075.4	2064.6
17.5°	2017.7	2001.0	1967.1	1951.1	1938.5	1919.8	1912.2
20°	1937.2	1888.1	1830.9	1808.1	1781.2	1728.7	1741.3
22.5°	1763.6	1707.5	1650.5	1583.7	1551.9	1502.0	1499.0
25°	1493.3	1396.8	1290.6	1216.2	1172.9	1123.2	1101.4
27.5°	1161.1	1039.5	952.4	908.4	868.2	828.8	827.2
30°	942.6	851.2	783.8	746.1	721.5	705.0	708.4
32.5°	794.5	731.9	686.5	655.1	637.0	624.5	624.3
35°	649.5	606.7	577.6	564.4	551.3	542.2	542.7
37.5°	555.9	530.1	513.9	499.4	491.2	486.7	484.2
40°	507.9	486.7	474.2	465.6	458.7	452.5	451.3
42.5°	469.9	452.5	439.9	433.2	426.7	422.3	421.1
45°	417.1	402.8	391.3	383.9	381.1	377.0	377.0
47.5°	371.0	357.0	348.0	343.4	338.5	335.8	335.7
50°	339.9	329.1	321.1	318.2	314.2	312.5	311.9
52.5°	312.0	303.9	298.3	296.3	294.5	292.4	292.7
55°	274.2	269.7	267.3	265.6	262.8	259.3	261.7
57.5°	242.4	238.4	232.3	226.9	224.3	221.9	222.8
60°	220.0	212.0	204.0	197.7	196.0	190.8	190.8
62.5°	191.6	180.4	170.6	167.0	165.3	162.9	162.5
65°	147.4	142.8	140.5	138.3	137.1	137.1	136.0
67.5°	122.2	120.3	117.8	117.3	116.1	115.7	115.4
70°	108.0	105.6	104.5	104.0	102.8	103.4	101.7
72.5°	94.3	92.5	92.2	90.7	90.1	90.1	88.9
75°	74.3	74.3	73.7	73.1	72.0	71.4	72.0
77.5°	57.2	57.3	56.2	56.1	56.0	56.1	55.5
80°	45.7	46.2	45.7	45.1	44.6	45.1	44.6
82.5°	36.1	35.3	35.2	35.0	35.0	34.6	34.5
85°	20.6	21.1	20.6	20.0	20.0	20.0	20.6
87.5°	14.5	14.4	14.4	14.5	14.5	14.6	14.1
90°	33.7	33.2	33.1	33.3	33.6	33.8	34.0
92.5°	32.0	32.2	32.2	32.3	32.3	32.4	32.4
95°	64.0	64.0	63.8	63.4	62.9	62.4	62.0
97.5°	107.6	107.6	107.6	107.5	107.5	107.5	107.5
100°	138.0	138.0	137.9	137.7	137.5	137.2	137.0
102.5°	171.3	171.5	171.5	171.3	171.1	170.8	170.7
105°	221.4	221.8	222.1	222.1	222.1	222.1	222.1
107.5°	274.7	274.9	274.5	273.5	272.5	271.5	270.4
110°	311.1	311.1	310.7	310.0	309.4	308.7	308.1



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.1	346.6	346.0	345.5	345.0	344.6	344.1
115°	403.4	403.1	402.7	402.1	401.4	400.7	400.0
117.5°	457.3	456.8	456.2	455.5	454.8	454.1	453.5
120°	494.0	494.0	493.7	493.1	492.4	491.7	491.0
122.5°	530.9	530.3	529.9	529.3	528.8	528.4	527.9
125°	586.1	585.4	585.0	584.7	584.5	584.3	584.1
127.5°	639.6	638.9	638.1	637.4	636.7	636.0	635.2
130°	676.7	676.3	675.6	674.8	673.8	673.0	672.1
132.5°	712.0	711.0	710.2	709.5	708.7	708.0	707.3
135°	765.4	765.2	764.7	764.1	763.4	762.8	762.1
137.5°	816.0	815.8	815.3	814.3	813.5	812.6	811.7
140°	850.1	850.1	849.6	848.8	847.9	847.0	846.1
142.5°	881.1	881.2	880.9	879.9	879.1	878.2	877.3
145°	927.8	928.0	927.6	926.8	925.9	925.0	924.1
147.5°	969.0	969.5	969.3	968.5	967.6	966.7	966.0
150°	995.1	995.8	995.8	995.1	994.5	993.8	993.2
152.5°	1021.2	1022.1	1022.1	1021.2	1020.5	1019.6	1018.7
155°	1054.5	1055.6	1055.8	1055.2	1054.5	1053.8	1053.1
157.5°	1085.3	1086.8	1087.0	1085.9	1084.9	1083.8	1082.7
160°	1103.1	1104.5	1104.7	1103.8	1102.9	1102.0	1101.1
162.5°	1119.6	1121.2	1121.4	1120.3	1119.3	1118.2	1117.1
165°	1140.8	1142.4	1142.5	1141.5	1140.4	1139.3	1138.2
167.5°	1158.2	1159.8	1159.9	1158.8	1157.6	1156.5	1155.4
170°	1167.8	1169.3	1169.5	1168.1	1166.8	1165.4	1164.2
172.5°	1175.0	1176.6	1176.6	1175.4	1174.0	1172.7	1171.3
175°	1182.8	1184.4	1184.5	1183.2	1181.8	1180.5	1179.1
177.5°	1185.9	1187.0	1187.0	1185.9	1184.9	1183.8	1182.8
180°	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2	1185.2

(END OF REPORT)